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| Substitute for form 1449A/B/PTO                                                                   |   |    |   | <b>Complete if Known</b> |                   |
|                                                                                                   |   |    |   | Application Number       | 10/777,896        |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   |    |   | Filing Date              | February 13, 2004 |
|                                                                                                   |   |    |   | First Named Inventor     | Lixiang Wang      |
|                                                                                                   |   |    |   | Art Unit                 | N/A               |
|                                                                                                   |   |    |   | Examiner Name            | Not Yet Assigned  |
| Sheet                                                                                             | 1 | of | 1 | Attorney Docket Number   | C3540.0001        |

| U.S. PATENT DOCUMENTS |                       |                                          |                                |                                                    |                                                                                 |
|-----------------------|-----------------------|------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                       |                       |                                          |                                |                                                    |                                                                                 |

| FOREIGN PATENT DOCUMENTS |                       |                                                                                   |                                |                                                               |                                                                                 |                |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document                                                           | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document            | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |                                                               |                                                                                 |                |
|                          | BA                    | CN-1381544-A1                                                                     | 11-27-2002                     |                                                               |                                                                                 |                |
|                          | BB                    | CN-1381543-A1                                                                     | 11-27-2002                     |                                                               |                                                                                 |                |
|                          | BC                    | WO-98/27136-A1                                                                    | 06-25-1998                     | Hoechst Research &<br>Technology Deutschland<br>GMBH & Co. KG |                                                                                 |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                       |                                                                                                                                                                                                                                                                 |                |
|---------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | CA                    | JH BURROUGHES, ET AL., "Light-Emitting Diodes Based On Conjugated Polymers," Nature, Vol 347, October 11, 1990, pp. 539-541                                                                                                                                     |                |
|                                 | CB                    | H. SPREITZER, ET AL., "Soluble Phenyl-Substituted PPVs - New Materials for Highly Efficient Polymer LEDs," Adv. Mater. 1998, Vol. 10, No. 16, pp 1340-1343                                                                                                      |                |
|                                 | CC                    | ZHISHAN BO, ET AL., "A Poly(para-phenylene) with Hydrophobic and Hydrophilic Dendrons: Prototype of an Amphiphilic Cylinder with the Potential to Segregate Lengthwise, Angew. Chem Int. Ed. 1999, Vol. 38, No. 16 pp. 2370-2372                                |                |
|                                 | CD                    | ZHISHAN BO, ET AL., "Synthesis of Amphiphilic Poly(P-phenylene)s with Pendant Dendrons and Linear Chains," Macromolecules 2000, Vol. 33, pp. 2688-2694                                                                                                          |                |
|                                 | CE                    | FRANCO CACIALLI, ET AL., "Cyclodextrin-threaded conjugated polyrotaxanes as insulated molecular wires with reduced interstrand interactions," Nature Materials, Vol. 1, November 2000, pp. 160-164                                                              |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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